N	umb r: 09/686,234B	CRF Processing Date: 1/1/2/20
	Changed a file from non-ASCII to ASCII ENTERED	Verified by: /0 (STIC s
	Changed the margins in cases where the sequence text was wrase	ed" down to the next line.
	Edited a format error in the Current Application Data section, specifi	cally:
	Edited the Current Application Data section with the actual current napplicant was the prior application data; or other	umber. The number inputted by the
	Added the mandatory heading and subheadings for "Current Applications of the control of the cont	ation Data".
	Edited the "Number of Sequences" field. The applicant spelled out a	a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subhead	ings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence	numbers that were edited were:
•	Inserted or corrected a nucleic number at the end of a nucleic line.	SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the sar applicant placed a response below the subheading, this was moved	ne line as each subheading. If the to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited inclu-	ded:
•	Deleted extra, invalid, headings used by an applicant, specifically:	
	Deleted:   non-ASCII "garbage" at the beginning/end of files;  page numbers throughout text;  other invalid text, such as_	secretary initials/filename at end of
	Inserted mandatory headings, specifically: (D) STATE: (E) (	ountly:
	Corrected an obvious error in the response, specifically:  Seg 2 - Changed (B) TYPE: AMINO ACIP to (	B) TYPE: nucleic acid
	Edited identifiers where upper case is used but lower case is requir	
	Corrected an error in the Number of Sequences field, specifically:	
_	A "Hard Page Break" code was inserted by the applicant. All occur	rences had to be deleted.
C	Deleted <i>endIng</i> stop codon in amino acid sequences and adjusted to a PatentIn bug). Sequences corrected:	he *(A)Length:* field accordingly (erro
C		

\*Examin r: The above corrections must be communicated to the applicant in the first Office Action. DO NOT s nd a copy of this form.

3/1/95



1600

RAW SEQUENCE LISTING DATE: 11/07/2002 PATENT APPLICATION: US/09/686,234B TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

## SEQUENCE LISTING

```
2 (1) GENERAL INFORMATION:
             (i) APPLICANT: SOMMERVILLE, CHRIS
      5
                            SCHIEBLE, WOLF
            (ii) TITLE OF INVENTION: MODIFIED CELLULOSE SYNTHASE GENE
      7
                                      FROM ARABIDOPSIS THALIANA CONFERS HERBICIDE RESISTANCE
      8
                                      TO PLANTS
      9
           (iii) NUMBER OF SEQUENCES: 2
     11
     13
            (iv) CORRESPONDENCE ADDRESS:
                  (A) ADDRESSEE: PAUL A. GOTTLIEB, AGCTT
     14
     15
                                 DEPARTMENT OF ENERGY
                                  GC-62 (FORSTL) MS-6F-067
     16
                  (B) STREET: 1000 INDEPENDENCE AVE. S.W.
     17
     18
                  (C) CITY: WASHINGTON, D.C.
     19
                  (D) STATE: NONE
                  (E) COUNTRY: USA
     20
     21
                  (F) ZIP: 20585
             (v) COMPUTER READABLE FORM:
     23
                  (A) MEDIUM TYPE: FLOPPY DISK
     24
     25
                  (B) COMPUTER: IBM PC COMPATIBLE
     26
                  (C) OPERATING SYSTEM: MS-DOS
                  (D) SOFTWARE: WORDPERFECT 8
     27
     29
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/686,234B
C--> 30
C--> 31
                  (B) FILING DATE: 11-Oct-2000
     34
          (viii) ATTORNEY/AGENT INFORMATION:
     35
                  (A) NAME: SMITH, BRADLEY
     36
                  (B) REGISTRATION NUMBER: 334436
     37
                  (C) REFERENCE/DOCKET NUMBER: S-93994
C--> 39
            (ix) TELECOMMUNICATION INFORMATION:
     40
                  (A) TELEPHONE: 630-252-2160
                  (B) TELEFAX: 630-252-2779
     41
     46 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     48
                  (A) LENGTH: 3563 NUCLEOTIDES
     49
                  (B) TYPE: NUCLEIC ACID
     50
                  (C) STRANDEDNESS: DOUBLE STRANDED
     51
     52
                  (D) TOPOLOGY: LINEAR
            (ii) MOLECULE TYPE: cDNA
C--> 56
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     61
              ATCCCAAGAT TCTCCTCTC GTCTTCCTTA TAAACTATCT CTCTGTAGAG AAGAAAGCTT 60
C--> 63
              GGATCCAGAT TGAGAGAGAT TCAGAGAGCC ACATCACCAC ACTCCATCTT CAGATCTCAT 120
     64
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     65
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RAW SEQUENCE LISTING DATE: 11/07/2002 PATENT APPLICATION: US/09/686,234B TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

66				ATTGTTCCGC			
67				CGTTTTGTGG			300
68				AGGAAAGATG			
69				AGTCCTGCTA			
70				TTCAACTACC			
71				GGGAAGGGAG			
72				CCTCGTCTCA			
73				CTCTCTGTAT			
74				CAATCACCAA			720
75				AGAGTTGATG		• • • • • • • • • • • • • • • • • • • •	780
76				GCTTCTGAAA			
77				CTGCTGAATG			
78	TCAAGGAAAG	TTTCAATTCC	TTCATCACGG	ATCAATCCTT	ACAGAATGGT	TATTATGCTG	960
79				TACCGTATAA			
80				GAGATCTGGT			
81				CGTGAAACCT			
82				TTAGCTGCTG			
83	GTTGACCCCT	TGAAGGAGCC	ACCCCTTGTG	ACAGCCAACA	CAGTGCTCTC	TATTCTGGCT	1260
84	GTTGACTACC	CAGTTGACAA	GGTGTCCTGT	TATGTTTTTG	ATGATGGTGC	TGCTATGTTA	1320
85	TCATTTGAAT	CACTTGCAGA	AACATCAGAG	TTTGCTCGTA	AATGGGTACC	ATTTTGCAAG	1380
86	AAATATAGCA	TAGAGCCTCG	TGCACCAGAA	TGGTACTTTG	CTGCGAAAAT	AGATTACTTG	1440
87	AAGGATAAAG	TTCAGACATC	ATTTGTCAAA	GATCGTAGAG	CTATGAAGAG	GGAATATGAG	1500
88	GAATTTAAAA	TCCGAATCAA	TGCACTTGTT	TCCAAAGCCC	TAAAATGTCC	TGAAGAAGGG	1560
89	TGGGTTATGC	AAGATGGCAC	ACCGTGGCCT	GGAAATAATA	CAGGGGACCA	TCCAGGAATG	1620
90	ATCCAGGTCT	TCTTAGGGCA	AAATGGTGGA	CTTGATGCAG	AGGGCAATGA	GCTCCCGCGT	1680
91	TTGGTATATG	TTTCTCGAGA	AAAGCGACCA	GGATTCCAGC	ACCACAAAAA	GGCTGGTGCT	1740
92	ATGAATGCAC	TGGTGAGAGT	TTCAGCAGTT	CTTACCAATG	GACCTTTCAT	CTTGAATCTT	1800
93	GATTGTGATC	ATTACATAAA	TAACAGCAAA	GCCTTAAGAG	AAGCAATGTG	CTTCCTGATG	1860
94	GACCCAAACC	TCGGGAAGCA	AGTTTGTTAT	GTTCAGTTCC	CACAAAGATT	TGATGGTATC	1920
95	GATAAGAACG	ATAGATATGC	TAATCGTAAT	ACCGTGTTCT	TTGATATTAA	CTTGAGAGGT	1980
96				GGAACTGGAT			
97				AAACACAAGA			
98				AAAGCTAAGA			
99				GTATTCAACC			
100	GTTGAAGGT	CTGGTTTTG	TGATGAAAA	GCGCTCTTAA	TGTCGCAAAT	GAGCCTGGAG	2280
101				GCTTCTACCC			
102				C AAAGAGGCTA			
103				ATTGGATGGA			
104				CGTGGATGG			
105				T ATCAATCTTI			
106				CTCTTCAGTO			
107				AGGTTTGCGT			
108				TGTACATTGC			
100				C ATTGCAAGTA			
110				ATGAGGTGGA			
111				T GGTGGAGTAT			
				r GGTGGAGTAT			
112				F ATTGACACAA G CTCTACTTGT			
113							
114	ATTCCGCCA	A CGACGCTGCT	CATTGTAAA	C TTAGTGGGAG	TTGTTGCAGG	AGICICITA.	. 3120

RAW SEQUENCE LISTING DATE: 11/07/2002 PATENT APPLICATION: US/09/686,234B TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

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    118
               CCTACCATTG TTGTGGTCTG GTCTGTTCTC TTGGCTTCTA TCTTCTCGTT GTTGTGGGTT 3300
    119
    120
              AGGATTGATC CCTTCACTAG CCGAGTCACT GGCCCGGACA TTCTGGAATG TGGAATCAAC 3360
              TGTTGAGAAG CGAGCAAATA TTTACCTGTT TTGAGGGTTA AAAAAAACAC AGAATTTAAA 3420
    121
              TTATTTTCA TTGTTTTATT TGTTCACTTT TTTACTTTTG TTGTGTGTAT CTGTCTGTTC 3480
    122
    123
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    124
    127 (2) INFORMATION FOR SEQ ID NO: 2:
              (i) SEQUENCE CHARACTERISTICS:
    129
    130
                   (A) LENGTH: 3563 NUCLEOTIDES
    131
                   (B) TYPE: NUCLEIC ACID
                   (C) STRANDEDNESS: DOUBLE STRANDED
    132
    133
                   (D) TOPOLOGY: LINEAR
    135
             (ii) MOLECULE TYPE: cDNA
    137
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
C--> 139
              ATCCCAAGAT TCTCCTCTC GTCTTCCTTA TAAACTATCT CTCTGTAGAG AAGAAAGCTT 60
               GGATCCAGAT TGAGAGAGAT TCAGAGAGCC ACATCACCAC ACTCCATCTT CAGATCTCAT 120
    140
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    141 -
               GGGGAAACCG CGGGAAAGCC GATGAAGAAC ATTGTTCCGC AGACTTGCCA GATCTGTAGT 240
    142
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    144
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              TGCAAAACCA GATACAAGAG GCTCAAAGGT AGTCCTGCTA TTCCTGGTGA TAAAGACGAG 420
    145
               GATGGCTTAG CTGATGAAGG TACTGTTGAG TTCAACTACC CTCAGAAGGA GAAAATTTCA 480
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    150
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               TTTGCTCTAT GGCTGGTCTC TGTGATATGT GAGATCTGGT TTGCCTTATC CTGGATTTTG 1080
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    160
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    162
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    163
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    167
              TTGGTATATG TTTCTCGAGA AAAGCGACCA GGATTCCAGC ACCACAAAAA GGCTGGTGCT 1740
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    168
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    169
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RAW SEQUENCE LISTING DATE: 11/07/2002 PATENT APPLICATION: US/09/686,234B TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\1686234B.raw

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174	CTCTGTGGTG	GATCAAGAAA	GAAGAATTCC	AAAGCTAAGA	AAGAGTCGGA	CAAAAAGAAA	2160
177	TCAGGCAGGC	ATACTGACTC	AACTGTTCCT	GTATTCAACC	TCGATGACAT	AGAAGAGGGA	2220
178	GTTGAAGGTG	CTGGTTTTGA	TGATGAAAAG	GCGCTCTTAA	TGTCGCAAAT	GAGCCTGGAG	2280
179	AAGCGATTTG	GACAGTCTGC	TGTTTTTGTT	GCTTCTACCC	TAATGGAAAA	TGGTGGTGTT	2340
180	CCTCCTTCAG	CAACTCCAGA	AAACCTTCTC	AAAGAGGCTA	TCCATGTCAT	TAGTTGTGGT	2400
181	TATGAGGATA	AGTCAGATTG	GGGAATGGAG	ATTGGATGGA	TCTATGGTTC	TGTGACAGAA	2460
182	GATATTCTGA	CTGGGTTCAA	AATGCATGCC	CGTGGATGGC	GATCCATTTA	CTGCATGCCT	2520
183	AAGCTTCCAG	CTTTCAAGGG	TTCTGCTCCT	ATCAATCTTT	CAGATCGTCT	GAACCAAGTG	2580
184	CTGAGGTGGG	CTTTAGGTTC	AGTTGAGATT	CTCTTCAGTC	GGCATTGTCC	TATATGGTAT	2640
185	GGTTACAATG	GGAGGCTAAA	ATTTCTTGAG	AGGTTTGCGT	ATGTGAACAC	CACCATCTAC	2700
186	CCTATCACCT	CCATTCCTCT	TCTCATGTAT	TGTACATTGC	TAGCCGTTTG	TCTCTTCACC	2760
187	AACCAGTTTA	TTATTCCTCA	GATTAGTAAC	ATTGCAAGTA	TATGGTTTCT	GTCTCTCTTT	2820
188	CTCTCCATTT	TCGCCACGGG	TATACTAGAA	ATGAGGTGGA	GTGGCGTAGG	CATAGACGAA	2880
189	TGGTGGAGAA	ACGAGCAGTT	TTGGGTCATT	GGTGGAGTAT	CCGCTCATTT	ATTCGCTGTG	2940
190	TTTCAAGGTA	TCCTCAAAGT	CCTTGCCGGT	ATTGACACAA	ACTTCACAGT	TACCTCAAAA	3000
191	GCTTCAGATG	AAGACGGAGA	CTTTGCTGAG	CTCTACTTGT	TCAAATGGAC	AACACTTCTG	3060
192	ATTCCGCCAA	CGACGCTGCT	CATTGTAAAC	TTAGTGGGAG	TTGTTGCAGG	AGTCTCTTAT	3120
193	GCTATCAACA	GTGGATACCA	ATCATGGGGA	CCACTCTTTG	ATAAGTTGTT	CTTTGCCTTC	3180
194	TGGGTGATTG	TTCACTTGTA	CCCTTTCCTC	AAGGGTTTGA	TGGGTCGACA	GAACCGGACT	3240
195	CCTACCATTG	TTGTGGTCTG	GTCTGTTCTC	TTGGCTTCTA	TCTTCTCGTT	GTTGTGGGTT	3300
196	AGGATTGATC	CCTTCACTAG	CCGAGTCACT	GGCCCGGACA	TTCTGGAATG	TGGAATCAAC	3360
197	TGTTGAGAAG	CGAGCAAATA	TTTACCTGTT	TTGAGGGTTA	AAAAAAACAC	AGAATTTAAA	3420
198	TTATTTTTCA	TTGTTTTATT	TGTTCACTTT	TTTACTTTTG	TTGTGTGTAT	CTGTCTGTTC	3480
199	GTTCTTCTGT	CTTGGTGTCA	TAAATTTATG	TGTAGAATAT	ATCTTACTCT	AGTTACTTTG	3540
200	GAAAGTTATA	ATTAAAGTGA	AAG	3563			

VERIFICATION SUMMARY DATE: 11/07/2002 PATENT APPLICATION: US/09/686,234B TIME: 12:25:50

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

- L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
- L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
- L:39 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
- L:56 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]
- L:63 M:111 C: (47) String data converted to upper case,
- M:111 Repeated in SeqNo=1
- $L:139 \ M:111 \ C:$  (47) String data converted to upper case,
- M:111 Repeated in SeqNo=2





1600

RAW SEQUENCE LISTING

DATE: 11/07/2002

PATENT APPLICATION:

US/09/686,234B

TIME: 09:06:02

Input Set : A:\EP.txt

Output Set: N:\CRF4\11072002\I686234B.raw

```
Does Not Comply
                       SEQUENCE LISTING
                                                                       Corrected Diskette Needed
        (1) GENERAL INFORMATION:
              (i) APPLICANT: SOMMERVILLE, CHRIST
      5
                               SCHIEBLE, WOLF
             (ii) TITLE OF INVENTION: MODIFIED CELLULOSE SYNTHASE GENE
      6
                                        FROM ARABIDOPSIS THALIANA CONFERS HERBICIDE RESISTANCE
      7
                                        TO. PLANTS
      8
            (iii) NUMBER OF SEQUENCES: 2
     10
             (iv) CORRESPONDENCE ADDRESS:
     12
                    (A) ADDRESSEE: PAUL A. GOTTLIEB, AGCTT
     13
                                    DEPARTMENT OF ENERGY.
     14.
                    (B) STREET: 1000 INDEPENDENCE AVE. S.W. (D) STATE; NONE
(C) CITY: WASHINGTON, D.C. (E) COUNTRY: USA

OMPUTER: READABLE FORM.
                                    GC-62 (FORSTL) MS-6F-067
     15
     16
     17
C--> 18.
              (V) COMPUTER READABLE FORM:
     20
                    (A) MEDIUM TYPE: FLOPPY DISK
      21
                    (B) COMPUTER: IBM PC COMPATIBLE
     22
                    (C) OPERATING SYSTEM: MS-DOS
     23
                    (D) SOFTWARE: WORDPERFECT 8
     24
             (vi) CURRENT APPLICATION DATA:
     26
                    (A) APPLICATION NUMBER: US/09/686,234B
C--> 27
                    (B) FILING DATE: 11-Oct-2000
C--> 28
           (Viii) ATTORNEY/AGENT INFORMATION:
      31
                    (A) NAME: SMITH, BRADLEY
      32
                    (B) REGISTRATION NUMBER: 334436
      33
                    (C) REFERENCE/DOCKET NUMBER: S-93994
      34
             (ix) TELECOMMUNICATION INFORMATION:
C--> 36
                    (A) TELEPHONE: 630-252-2160
      37
                    (B) TELEFAX: 630-252-2779
      38
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## ERRORED SEQUENCES

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124 (2) INFORMATION FOR SEQ ID NO: 2:
126
         (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 3563 NUCLEOTIDES
127.
              (B) TYPE; AMINO ACID
128
              (C) STRANDEDNESS: DOUBLE STRANDED
129
130
              (D) TOPOLOGY: LINEAR
        (ii) MOLECULE TYPE: cDNA.
132
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
134
          atoccaagat totoctotto gtottootta taaactatot ototgtagag aagaaagott 9060
136
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,234B

DATE: 11/07/2002 TIME: 09:06:02

Input Set : A:\EP.txt
Output Set: N:\CRF4\11072002\I686234B.raw

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139		ggggaaaccg	cgggaaagcc	gatgaagaac	attgttccgc	agacttgcca	gatctgtagt	JF240
140		gacaatgttg	gcaagactgt	tgatggagat.	cgttttgtgg	cttgtgatat.	ttgttcattc	9300
141		ccagtttgtc	ggccttgcta	cgagtatgag	aggaaagatg	ggaatcaatc:	ttgtcctcag	9360
142		tgcaaaacca	gatacaagag	gctcaaaggt	agtcctgcta	ttcctggtga	taaagacgag	9420
143		gatggcttag	ctgatgaagg	tactgttgag	ttcaactacc	ctcagaagga	gaaaatttca	.0480
144		gagcggatgc	ttggttggca	tcttactcgt	gggaagggag	aggaaatggg	ggaaccccag	<i>Q</i> 540
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146		ggagagtttt	ctgctgcctc	acctgaacgc	ctctctgtat	cttctactat	cgctggggga	.9660
147		aagcgccttc	cctattcatc	agatgtcaat	caatcaccaa.	atagaaggat.	tgtggatcct	<i>-</i> 9720
148		gttggactcg	ggaatgtagc	ttggaaggag	agagttgatg.	gctggaaaat	gaagcaagag	9·780
149		aagaatactg	gtcctgtcag	cacgcaggct	gcttctgaaa	gaggtggagt	agatattgat	.0-840
150		gccagcacag	atatcctagc	agatgaggct	ctgctgaatg	acgaagcgag	gcagcctctg	<i>9</i> 900
151		tcaaggaaag	tttcaattcc	'ttcatcacgg	atcaatcctt	acagaatggt	tattatgctg	<b>9</b> -9:6'0.
152		cggcttgtta	tcctttgtct.	cttcttgcat,	taccgtataa	caaacccagt	gccaaatgcc	1020.
153		tttgctctat	ggctggtctc	tgtgatatgt	gagatetggt	ttgccttatc	ctggattttg	1080
154		gatcagtttc	ccaagtggtt	tectgtgaac	cgtgaaacet	acctcgacag	gettgettta	1140
155		agatatgate	gtgaaggtga	gccatcacag	ttagctgctg	ttgacatttt	cgtgagtact	1200
15.6		gttgacccct	tgaaggagec	accccttgtg	acagecaaca	cagtgctctc	tattctggct.	1.26,0
157.		gttgactacc	cagttgacaa	ggtgtcctgt	tatgttttg	atgatggtgc	tgctatgtta	1320
158		tcatttgaat	cacttgcaga	aacatcagag	tttgctcgta.	aatgggtacc	attttgcaag	1380
159		aaatatagca	tagagcctcg	tgcaccagaa	tggtactttg	ctgcgaaaat	agattacttg	1440
160		aaggataaag	ttcagacatc	atttgtcaaa	gatcgtagag	ctatgaagag	ggaatatgag	1500
161		gaatttaaaa	tccgaatcaa	tgcacttgtt	tecaaageee	taaaatgtcc	tgaagaaggg	1560
162		tgggttatgc	aagatggcac	accgtggcct	ggaaataata	caggggacca	tccaggaatg	16:20:
163		atccaggtct	tcttagggca	aaatggtgga	cttgatgcag	agggcaatga	gctcccgcgt	1680
164		ttggtatatg	tttctcgaga	aaagcgacca	ggattccagc	accacaaaaa	ggctggtgct	1740
165		atgaatgcac	tggtgagagt	ttcagcagtt	cttaccaatg	gacctttcat	cttgaatctt	1800
166		gattgtgatc	attacataaa	taacagcaaa	gccttaagag	aagcaatgtg	cttcctgatg	1860
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168		gataagaacg	atagatatgc	taatcgtaat	accgtgttct	ttgatattaa	cttgagaggt.	1980
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171		ctctgtggtg	gatcaagaaa	gaagaattcc	aaagctaaga	aagagtcgga	caaaaagaaa.	2160
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187	•	tttcaaggta	tcctcaaagt	ccttgccggt	attgacacaa	acttcacagt	tacctcaaaa	3000
			-			•		

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,234B

DATE: 11/07/2002 TIME: 09:06:02

Input Set : A:\EP.txt

Output Set: N:\CRF4\11072002\1686234B.raw

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